

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A seal device with sensor, the seal device comprising:

a fixed side seal member including

a core metal part fitted and fixed to a fixed member, and

a sensor ~~resin molded~~ adhered via resin to the core metal; and

a rotating side seal member that rotates around an axis of rotation, the rotating side seal member including

a rotatable cylindrical part fitted and fixed to a rotating member, and

a flange part extending towards the fixed side seal member, in continuation with an outer end part, in ~~[[the]]~~ an axial direction of the rotatable cylindrical part~~[[;]]~~,

wherein the core metal part of the fixed side seal member includes

a fitting cylindrical part fitted and fixed to ~~[[a]]~~ the fixed member,

a first coupling part extending towards the rotatable cylindrical part of the rotating side seal member in continuation with an inner end part, in the axial direction, of the fitting cylindrical part, and

a moisture entering prevention cylindrical part extending outward in the axial direction in continuation with the first coupling part~~[[;]]~~,

wherein an ~~[[the]]~~ outer end part, in the axial direction, of the fitting cylindrical part is ~~insert molded so as to be~~ positioned and fixed in the resin~~[[;]]~~, and

wherein an elastic seal is arranged on ~~at least~~ one of the core metal part and the rotating side seal member to slidably contact the other of the core metal part and the rotating side seal member.

Claim 2 (Currently Amended): The seal device with sensor according to claim 1,
wherein the rotating side seal member includes a pulser arranged at an inner portion,
in the axial direction, of the rotatable cylindrical part, the pulser ~~being configured by~~
comprising a supporting member including
a large diameter cylindrical part,
a small diameter cylindrical part, [[and]]
a second coupling part, and
a magnetized body arranged in the supporting member so as to face the sensor; the
elastic seal being arranged at [[the]] an outer end part, in the axial direction, of the moisture
entering prevention cylindrical part of the fixed side seal member and ~~made to approach~~
extending radially away from the moisture entering prevention cylindrical part and toward the
outer portion, in the axial direction, of the rotatable cylindrical part and the flange part of the
rotating side seal member.

Claim 3 (Currently Amended): The seal device with sensor according to claim 1,
wherein a step including an inner portion, in the axial direction, and an outer portion,
in the axial direction, that is ~~more depressed~~ has a smaller diameter than the inner portion, is
~~formed~~ disposed at [[the]] an end part of the rotating member;
wherein the rotatable cylindrical part of the rotating side seal member is fitted to the
outer portion, in the axial direction, of the step;
wherein a supporting member of [[the]] a pulser, includes ~~configured by~~ a cylindrical
supporting member and a magnetized body and is fitted to the inner portion, in the axial
direction, of the step of the rotating member,
wherein the magnetized body of the pulser is arranged at the supporting member so as
to face the sensor,

wherein the elastic seal is arranged at the outer end part, in the axial direction, of the moisture entering prevention cylindrical part of the fixed side seal member and extends radially toward ~~made to approach~~ the rotating side seal member.

Claim 4 (Currently Amended): The seal device with sensor according to ~~any one of~~ ~~claims~~ claim 1 [[to 3]], wherein a wiring retrieving ~~cut-out~~ cut-out for passing [[a]] wiring connecting the sensor and a signal processing means is arranged at the outer end part, in the axial direction, of the fitting cylindrical part of the core metal of the fixed side seal member.

Claim 5 (Currently Amended): The seal device with sensor according to claim 1, wherein the fixed side seal member includes, a bulging resin part that bulges ~~bulging more~~ outward in the axial direction more than the rotating side seal member bulges, and faces inward toward the axis of rotation ~~extending as the inner diameter extend outward in the axial~~ ~~direction.~~

Claim 6 (Currently Amended): The seal device with sensor according to claim 1, wherein the resin ~~member for holding the sensor~~ includes a positioning planar end face spaced apart by a predetermined distance outward, in the axial direction, from [[the]] an outer end part, in the axial direction, of the core metal, an [[the]] outer surface and [[the]] an inner surface adjacent to the planar end face, in the radial direction, ~~of the planar end face~~ being positioned more inward in the axial direction than the planar end face.

Claim 7 (Currently Amended): The seal device with sensor according to claim 1,
wherein a plurality of convex parts are arranged in the circumferential direction in a
predetermined interval on at least one of ~~[[the]]~~ an outer surface or ~~[[the]]~~ an inner surface, in
the axial direction, of ~~[[the]]~~ resin ~~portion~~ exposed from the core metal.

Claim 8 (Currently Amended): The seal device with sensor according to claim 7,
wherein the plurality of convex parts are arranged on both the outer surface and the inner
surface in the axial direction of the resin ~~member~~, ~~[[the]]~~ a convex part on the outer surface,
in the axial direction, acting as a reference surface of pressing in press fitting to the fixed
member of the fixed side seal member, the convex part on the inner surface, in the axial
direction, contacting the outer ring in press fitting to the fixed member of the fixed side seal
member and preventing further press fitting of the core metal.

Claim 9 (Currently Amended): A roller bearing device comprising: ~~a roller bearing~~
~~configured by~~

a fixed ring serving as a fixed member,
a rotating ring serving as a rotating member, and
rollers arranged between the rings, and a sealing device with sensor integrally
arranged with the roller bearing, the sealing device with sensor being the seal device with
sensor according to claim 1 ~~any one of claims 1 to 8~~.

Claim 10 (Currently Amended): The roller bearing device according to claim 9,
wherein the fixed ring is a vehicle body side raceway member including an attachment to the
vehicle body, and the rotating ring is a wheel side raceway member including a wheel
attachment, ~~and the device is used as a hub unit for an automobile.~~

Claim 11 (New): The seal device with sensor according to claim 2, wherein a wiring retrieving cut-out for passing a wiring connecting the sensor and a signal processing means is arranged at the outer end part, in the axial direction, of the fitting cylindrical part of the core metal of the fixed side seal member.

Claim 12 (New): The seal device with sensor according to claim 3, wherein a wiring retrieving cut-out for passing a wiring connecting the sensor and a signal processing means is arranged at the outer end part, in the axial direction, of the fitting cylindrical part of the core metal of the fixed side seal member.

Claim 13 (New): The seal device with sensor according to claim 1, wherein the sensor is disposed radially between the fitted cylindrical part and the moisture entering prevention cylindrical part.

Claim 14 (New): The seal device with sensor according to claim 1, wherein the flange part of the rotating side seal member is received in a cavity in the elastic seal.

Claim 15 (New): The seal device with sensor according to claim 1, wherein the moisture entering prevention cylindrical part is parallel to the fitting cylindrical part and is radially offset from the fitting cylindrical part.

Claim 16 (New): The seal device with sensor according to claim 15, wherein the moisture entering prevention cylindrical part is disposed between the elastic seal and the fitting cylindrical part.